

**Abstract**

A method and apparatus comprises providing a vector network analyzer having at least two measurement ports and presenting a high reflect calibration standard, a line calibration standard, a source terminated thru calibration standard, and a locally terminated through calibration standard at each measurement port or pair of measurement ports. Forward and reverse reflection tracking is calculated based upon a boundary condition wherein an argument of the reflection tracking coefficients is zero at DC. The DUT is measured and the measurement is corrected for systematic errors based upon the error coefficients.